

Substitute for form 1449A/PTO

(use as many sheets as necessary)

Sheet 1 of 10

**Complete if Known**

<b>Application Number</b>	10/684,735
<b>Filing Date</b>	October 14, 2003
<b>First Named Inventor</b>	Shalini Sharma
<b>Art Unit</b>	1624
<b>Examiner Name</b>	Sudhaker Patel
<b>Attorney Docket Number</b>	18015-D4

## U.S. PATENT DOCUMENTS

**FOREIGN PATENT DOCUMENTS**

**Examiner  
Signature**

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Date Considered

6	18	04
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Substitution for form 1449A/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>		<b>Complete if Known</b>	
		Application Number	10/684,735
		Filing Date	October 14, 2003
		First Named Inventor	Shalini Sharma
		Art Unit	1624
		Examiner Name	Sudhaker Patel
		Attorney Docket Number	18015-D4
Sheet	2	of	10

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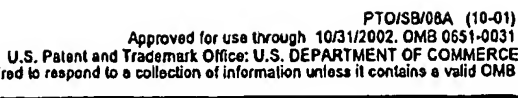
FOREIGN PATENT DOCUMENTS					
Examiner Initials	Cite No. 1	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code 3 - Number 4 - Kind Code 5 (if known)			
8/10		WO 98/08836 (abstract)	03/1998		
		WO 95/13262 (abstract)	05/1995		
		WO 94/27993 (abstract)	12/1994		
		WO 93/08799 (abstract)	06/1993		
		JP 04159266 (abstract)	06/1993		
		EP 407891 (abstract)	01/1991		
		EP 393400 (abstract)	10/1990		
		JP 01063570 (abstract)	03/1989		
		WO 88/08418 (abstract)	11/1988		
		EP 288190 (abstract)	10/1988		

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Sheet 3 of 10

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<b>Art Unit</b>	1624
<b>Examiner Name</b>	Sudhaker Patel
<b>Attorney Docket Number</b>	18015-D4

[illegible]

Examiner Initials	Cite No. 1	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Country Code 3 - Number 4 - Kind Code 6 (if known)					
✓ 1 ✓ 2		JP 61040270	(abstract)	02/1986	—	—	—
		JP 55015460	(abstract)	02/1980	—	—	—
		GB 1488330	(abstract)	10/1977	—	—	—
		JP 52025734	(abstract)	02/1977	—	—	—
		DE 2527066	(abstract)	01/1976	—	—	—
		DE 2459468	(abstract)	07/1975	—	—	—
		FR 2191887	(abstract)	02/1975	—	—	—
		JP 47025149	(abstract)	10/1977	—	—	—
		JP 56115747	(abstract)	11/1981	—	—	—
		DE 3012012	(abstract)	10/1981	—	—	—

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		First Named Inventor	Shalini Sharma
		Art Unit	1624
		Examiner Name	Sudhaker Patel
		Attorney Docket Number	18015-D4
Sheet	4	of	10

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826          126		JP 50014653	(abstract)	02/1975	—	—
		DE 2512673	(abstract)	10/1975	—	—
		DE 1929165	(abstract)	06/1989	—	—
		ZA 6705655	(abstract)	05/1967	—	—
		WO 97/30017		08-21-1997	Shinkai, et al.	—
		WO 98/07681		02-26-1998	Moinet, et al.	—
		WO 99/62520		12-09-1999	Young, et al.	—
		EP 71399		02-09-1983	Tsung, et al.	—
		WO 92/12123		07-23-1992	Schirlin, et al.	—
	WO 00/63161		10-26-2000	Koib, et al.	—	

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		Filing Date	October 14, 2003
		First Named Inventor	Shalini Sharma
		Group Art Unit	1624
		Examiner Name	Sudhaker Patel
Sheet 5	of 10	Attorney Docket Number	18015-D4

NON PATENT PUBLICATIONS			
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[Signature]		Karche, et al., "Electronic Effects in Migratory Groups...", Journal of Organic Chemistry, Vol. 66, No. 19, pages 6323-6332, 2001. (Abstract)	
		Poupardin, et al., "First approach to the cycloisodityrosine unit of RA-IV", Tetrahedron Letters, Vol. 42, No. 8, pages 1523-1526, 2001. (Abstract)	
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		Wu, et al., "Improvement on the preparation of .beta.-keto esters", Huaxue Shiji, Vol. 20, No. 6, pages 376-377, 1998. (Abstract)	
		Wu, et al., "Total syntheses of furoguaiacin and related analogs", Huaxue Yanjiu Yu Yingyong, Vol. 9, No. 6, pages 595-599, 1997. (Abstract)	
		Fadnavis, et al., "Baker's yeast mediated enantiospecific synthesis of anti-(2R,3R)...", Tetrahedron: Asymmetry, Vol. 8, No. 24, pages 4003-4006, 1997. (Abstract)	
		Wu, et al., "A modification of the Knorr oxidative coupling method for preparation of 1,4-diketones", Synthetic Communications, Vol. 27, No. 2, pages 331-336, 1997. (Abstract)	
		Girard, et al. "Syntheses of the syn and anti .alpha.-amino-.beta.-hydroxy acid of vancomycin...", Tetrahedron Letters, Vol. 37, No. 44, pages 7967-7970, 1996. (Abstract)	
		Smith, et al., "Synthesis and PAF antagonist activity of some 2,5-dianyltetrahydrofurans incorporating PAF-like functional groups", European Journal of Medicinal Chemistry, Vol. 31, No. 5, pages 347-358, 1996. (Abstract)	
[Signature]		Maruyama, et al., "A synthesis of (+,-)-pinorensinol and its related compound using potassium persulfate (K2S2O8) oxidation of benzoylacetates", Heterocycles, Vol. 37, No. 2, pages 839-845, 1994. (Abstract)	
		Rao, et al., "Studies on cyclodepsipeptides. Part II. The total synthesis of jaspamide and geodiamolide-D", Tetrahedron Letters, Vol. 34, No. 44, pages 7085-7088, 1993. (Abstract)	

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Sheet 6	of 10		

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[Signature]		Colotta, et al., "Tricyclic heteroaromatic systems...", Farmaco, Vol. 46, No. 10, pages 1139-1154, 1991. (Abstract)	
		Dillard, et al., "(Phenylmethoxy) phenyl derivatives of w-oxo- and w-tetrazolylalkanoic acids...", J. Med. Chem., Vol. 34, No. 9, pages 2768-2778, 1991. (Abstract)	
		Bose, et al., "Synthesis of 4-phenylcoumarins from Dalbergia volubilis and Exostema caribaeum", Phytochemistry, Vol. 30, No. 7, pages 2438-2439, 1991. (Abstract)	
		Bose, et al., "Synthesis of 4-phenylcoumarins", Indian J. Chem., Sect. B, Vol. 29B, No. 5, pages 422-444, 1990. (Abstract)	
		Colotta, et al., "Tricyclic heteroaromatic systems...", J. Med. Chem., Vol. 33, No. 9, pages 2646-2651, 1990. (Abstract)	
		Kameo, et al., "Studies on hypolipidemic agents, IV. 3-[4-(Phenylthio) benzoyl] propionic acid derivatives", Chem. Pharm. Bull., Vol. 37, No. 5, pages 1260-1267, 1989. (Abstract)	
		Colotta, et al., "Tricyclic heteroaromatic systems: synthesis...", J. Pharm. Sci., Vol. 78, No. 3, pages 239-242, 1989. (Abstract)	
		Tanaka, et al., "Total synthesis of coumarinolignans, aquillochin (cleomiscosin C) and cleomiscosin D", Chem. Pharm. Bull., Vol. 36, No. 10, pages 3833-3837, 1988. (Abstract)	
		Parmar, et al., "Synthesis of new naturally occurring 4-phenyl-2H-1-benzopyran-2-ones", Bull. Chem. Soc. Jpn., Vol. 61, No. 6, pages 2277-2279, 1988. (Abstract)	
		Colotta, et al., "The correct synthesis of 2,3-dihydro-2-aryl-4-R-[1] benzopyrano [4,3-c] pyrazole-3-ones", Tetrahedron Letters, Vol. 28, No. 43, pages 5165-5168, 1987. (Abstract)	
[Signature]		Tanaka, et al., "Total synthesis of daphneticin, a coumarinolignoid", Chem. Pharm. Bull., Vol. 34, No. 2, pages 628-632, 1986. (Abstract)	

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 7

of 10

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Filing Date	October 14, 2003
First Named Inventor	Shalini Sharma
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**NON PATENT PUBLICATIONS**

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SJS	✓	Ahluwalia, et al., "Synthesis of stevenin and melanettin", Symp. Pap.- IUPAC Int. Symp. Chem. Nat. Prod., 11th, Volume 3, pages 11-13, 1978. (Abstract)	✓
	✓	Yamaguchi, "Degradation of protolignin with metallic sodium in liquid ammonia", Ringyo Shikenjo Kenkyu Hokoku, Vol 281, pages 1-78, 1976. (Abstract)	✓
	✓	Okumura, et al., "Synthesis of chromone-3-carboxanilides", Chem. Pharm. Bull., Vol 22, No. 2, pages 331-336, 1974. (Abstract)	✓
	✓	Von Wacek, et al., "Synthesis of methoxylated compounds for a comparative investigation of the stability of methyl ether groups", Monatsh. Chem, Vol. 97, No. 3, pages 744-753, 1966. (Abstract)	✓
	✓	Iwasa, et al., "The preparation of the biosynthetic precursor 3,7-dihydroxy-2, 6-dimethoxyphenanthroindolizidine", J. Nat. Prod., Vol. 51, No. 1, pages 172-175, 1998. (Abstract)	✓
	✓	Wong, et al., "Wedelolactone and coumestan derivatives as new antihepatotoxic and antiphlogistic principles", Arzneim.-Forsch., Vol. 38, No. 5, pages 661-665, 1988. (Abstract)	✓
	✓	Witiak, et al., "Synthetic aci-reductions. 3,4-Dihydroxy-2H-1-benzopyran-2-ones and their cis- and trans-4a, 5,6,7,8,8a-hexahydro diastereomers", J. Med. Chem., Vol. 31, No. 7, pages 1437-1445, 1988. (Abstract)	✓
SJS	✓	Entzeroh, et al., "Preparation of 3- (3-indolyl) Lactic acids...", Liebig's Ann. Chem., No. 2, pages 226-230, 1983. (Abstract)	✓
	✓	Bhakuni, et al., "Biosynthesis of tylophonine and tylophorinine", Tetrahedron, Vol. 37, No. 2, pages 401-407, 1981. (Abstract)	✓
	✓	Naidu, et al., "Debenzylation by nickel-aluminum alloy", J. Indian Inst. Sci., Vol. 62, No. 10, pages 177-180, 1980. (Abstract)	✓
✓	✓	Oka, et al., "Syntheses of N-heterocyclic compounds. XXVI. Syntheses of pyrido [3,4-d] pyridazine derivatives", Chem. Pharm. Bull., Vol. 23, No. 10, pages 2306-2317, 1975. (Abstract)	✓

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PS		Saunders, et al., "Syntheses of carbon-14-labeled prazidolol dihydrochloride", J. Labelled Compd. Radiopharm., Vol. 22, No. 9, pages 869-881, 1985. (Abstract)	
		Arnoldi, et al., "Synthesis and sweet taste of some 2-phenylbenzodioxanes", J. Agric. Food Chem., Vol. 34, No. 2, pages 339-344, 1986. (Abstract)	
		Winters, et al., "Synthesis and pregnancy terminating activity of pyrazolo [1,5-a] indoles and quinolines", Eur. J. Med. Chem.-Chim. Ther., Vol. 19, No. 3, pages 215-218, 1984. (Abstract)	
		Herbert, et al., "Biosynthesis of phenanthroindolizidine alkaloids: incorporation of 2-pyrrolidin-2-ylacetophenone and benzoylactic acid and derivatives", J. Chem. Soc., Perkin Trans. 1, No. 4., pages 825-831, 1984. (Abstract)	
		Toja, et al., "Synthesis and pregnancy terminating activity of 2-arylpyrazolo [5,1-a] isoindoles and isoquinolines", Eur. J. Med. Chem. -Chim. Ther., Vol. 17, No. 3, pages 223-227, 1982. (Abstract)	
		Ahluwalia, et al., "An unambiguous synthesis of melannein", Indian J. Chem., Sect. B, Vol. 21B, No. 3, pages 186-188, 1982. (Abstract)	
		Peller, et al., "Synthesis and NMR spectra of 2,6- and 2,4-diaryl-3,7-dioxabicyclo [3.3.0] octanes", J. Chem. Soc., Perkin Trans. 1, No. 1, pages 183-190, 1982. (Abstract)	
		Mangla, et al., "Synthesis of substituted 6,7-diphenyl-1,2,3,5,8,8a-hexahydroindolizines", Indian J. Chem., Sect. B, Vol. 19B, No. 11, pages 931-937, 1980. (Abstract)	
		Mangla, et al. "Synthesis of tylophorine", Tetrahedron, Vol. 36, No. 17, pages 2489-2490, 1980. (Abstract)	
		Ahluwalia, et al., "A novel synthesis of 4-phenylcoumarins having a free hydroxyl group in the phenyl ring: synthesis of melanettin and stevenin", Heterocycles, Vol. 14, No. 9, pages 1329-1330, 1980. (Abstract)	
		Charlton, et al., "The synthesis of 2-methylchromone-3-carboxylic acid", J. Heterocycl. Chem., Vol. 17, No. 3, pages 593-594, 1980. (Abstract)	

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		Examiner Name	Sudhaker Patel
Sheet 9	of 10	Attorney Docket Number	18015-D4

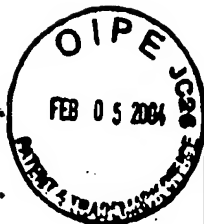
NON PATENT PUBLICATIONS			
Examiner Initials <sup>1</sup>	Cite No. <sup>2</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
[Signature]		Liu, et al., "The New Antidiabetic Drug MCC-555 Acutely Sensitizes Insulin Signaling in Isolated Cardiomyocytes", Endocrinology, Vol 139, No. 11, pages 4531-4539, (1998).	
		Kees, et al., "Perfluoro-N-[4-(1 H-tetrazol-5-ylmethyl) Phenyl]-alkanamides. A New Class of Oral Antidiabetic Agents", Journal of Medicinal Chemistry, Vol. 32, pages 11-13, (1989).	
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		Abstract 560-P, Hodge, et al. "PN2022: Antidiabetic Efficacy and Reversal of Steatohepatitis in ob/ob Mice", Diabetes, Abstract Book 62nd Scientific Sessions, Vol. 51 Suppl. 2, page A139, June 2002.	
		Abstract 561-P, Hodge, et al., "PN2034: Orally Active Antidiabetic Agent with a Unique Spectrum of Activity and Enhanced Safety Profile", Diabetes, Abstract Book 62nd Scientific Sessions, Vol. 51 Suppl. 2, page A139, June 2002.	
		Abstract 568-P, Lu, et al., "A Novel Antidiabetic Agent That is a Selective PPAR Modulator", Diabetes, Abstract Book 62nd Scientific Sessions, Vol 51, Suppl. 2., page A141, June 2002.	
		Abstract 586-P, von Borstel, et al. "PN2034: Reversal of Insulin Resistance and Attenuation of Weight Gain in Mice on a High-Fat Diet", Diabetes, Abstract Book 62nd Scientific Sessions, Vol 51, Suppl. 2, page A145, June 2002.	
		Poster #560, Hodge, et al., "PN2022: Antidiabetic Efficacy and Reversal of Steatohepatitis in ob/ob Mice." Presentation at the 62nd Scientific Sessions, Meeting of the American Diabetes Association on June 14- 18, 2002 and corresponding to Abstract 560-P.	
		Poster #561, Hodge, et al., "PN2034: Orally Active Antidiabetic Agent with a Unique Spectrum of Activity and Enhanced Safety Profile", Presentation given at the 62nd Scientific Sessions, Meeting of the American Diabetes Association on June 14-18, 2002 and corresponding to Abstract 560-P.	
		Poster #568, Lu, et al., "PN2034-A Novel Antidiabetic Agent That is a Selective PPAR Modulator", Presentation given at the 62nd Scientific Sessions, Meeting of the American Diabetes Association on June 14-18, 2002 and corresponding to Abstract 568-P.	
[Signature]		Poster #586, von Borstel, et al., "PN2034: Reversal of Insulin Resistance and Attenuation of Weight Gain in Mice on a High-Fat Diet", Presentation given at the 62nd Scientific Sessions, Meeting of the American Diabetes Association on June 14-18, 2002 and corresponding to Abstract 586-P.	

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	10/684,735
		Filing Date	October 14, 2003
		First Named Inventor	Shalini Sharma
		Group Art Unit	1624
		Examiner Name	Sudhaker Patel
		Attorney Docket Number	18015-D4
Sheet	10	of	10

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Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
[Handwritten marks]		Owada, et al., "Improved synthesis of tricin", Nippon Kagaku Zasshi, Vol. 91, No. 10, pages 1002-1003, 1970. (Abstract).	
		Veronese, et al., "Ozonolysis of derivatives of 7-hydroxytryptophan", Gazz. Chim. Ital., Vol. 97, No. 1, pages 18-24, 1967. (Abstract)	
		Kawamatsu, et al., Studies on antihyperlipidemic agents. Part 1. Synthesis and hypolipidemic activities of phenoxyphenylalkanoic acid derivatives", Arzneim. Forsch., Vol. 30, Issue 3, pages 454-459, 1980. (Abstract)	
		Chemical Abstract DN 132:22765, also cited as WO99/62620, 1999	
		Chemical Abstract DN 126:74645, also cited as J. Chem. Soc., Parkins Transactions 1, Org & Bio-Org. Chem., 21, 2603-2613, 1996.	
		Chemical Abstract DN 117:251790, also cited as Wo 92/12123, 1992	
		Chemical Abstract DN 113: 115839, also cited as Synthetic communications, 20/5,773-81, 1990.	
		Chemical Abstract DN 99: 122287, also cited as EP 71399, 1983,	

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